What is claimed is:

A substrate support for supporting a substrate, comprising:

a first plate having a first surface adapted to support the substrate and an opposing second surface;

a second plate coupled to the first plate; and

a heating element disposed between the second surface of the first plate and a first surface of the second plate, the heating element urged against the first plate.

- 2. The support of claim 1, wherein the first plate is fabricated from at least one material selected from the group consisting of stainless steel, nickel and nickel alloy.
- 3. The support of claim 1, wherein the resistive heating element comprises a metallic sheath circumscribing an electrical conductor, the metallic sheath fabricated from at least one material selected from the group consisting of stainless steel, nickel and nickel alloy.
- 4. The support of claim 3, wherein the metallic sheath and the first plate are fabricated from materials having substantially identical coefficients of thermal expansion.
- 5. The support of claim 3, wherein the metallic sheath and the first plate are fabricated from stainless steel.
- 6. The support of claim 1, wherein at least one of the first plate or second plate has a channel formed therein that receives at least a portion of the resistive heating element.



spacèd-apart relation.

- The support of claim 1 further comprising:

 a plurality of substrate support elements disposed on the first surface of the first plate adapted to maintain the substrate and the first surface in a
- 8. The support of claim 1 further comprising at least one metallic guide disposed between the first and second plates, the metallic guide laterally retaining the heating element relative the first and second plates.
- 9. The support of claim 8, wherein a portion of the metallic guide is disposed between the second plate and the heating element.
- 10. The support of claim 8, wherein the metallic guide further comprises:

 a first flange disposed parallel to the first surface of the second plate;

 a second flange disposed parallel to the first surface of the second plate;
 - a center portion coupling the first flange to the second flange; and a heating element receiving channel formed in the center portion.
- 11. The support of claim 8, wherein the first plate, second plate and metallic guide are spot welded together.
- 12. The support of claim 8, wherein the resistive heating element urged against the first plate by the guide.
- 13. The support of claim 8 further comprising:

a plurality of spacers disposed at least on or proximate the first surface of the first plate, the spacers adapted to maintain the substrate and the first surface in a spaced-apart relation.

- 14. The support of claim 1 further comprising:
- a first metallic guide disposed adjacent a portion of the heating element; and



a metallic guide disposed adjacent the portion of the heating element opposite the first metallic guide.

15. The support of claim 1 further comprising:

a thermally conductive filler disposed between the heating element and the first plate.

- 16. The support of claim 15, wherein the thermally conductive filler is at least one of a conductive paste, a conductive cement, a conductive adhesive, a conductive foam, a conductive gel, a metallic power, a metallic fiber or a metallic mesh.
- 17. A substrate support for supporting a substrate, comprising:
- a first metallic plate having a first surface and an opposing second surface;

a second metallic plate coupled to the first plate;

at least one guide disposed between the second surface of the first plate and a first surface of the second plate; and

a_resistive heating element laterally retained by the guide relative to the second surface of the first plate.

- 18. The substrate support of claim 17, wherein the guide further comprises a channel formed therein facing the second surface of the first plate, the channel retaining the resistive heating element.
- 19. The substrate support of claim 18, wherein the channel has a depth less that causes the resistive heating element to be urged against the first plate.
- 20. The substrate support of claim 18, wherein the channel has a rounded bottom.

- 21. The substrate support of claim 17, wherein the guide is coupled to the second surface of the first plate.
- 22. The substrate support of claim 17, wherein the at least one guide further comprises:
- a first guide disposed on a first side of the resistive heating element;
- a second guide disposed on a second side of the resistive heating element.
- 23. The substrate support of claim 17, wherein the resistive heating element comprises a metallic sheath circumscribing an electrical conductor, the metallic sheath fabricated from material having a coefficient of thermal expansion substantially similar to a coefficient of thermal expansion of the first plate.
- 24. The substrate support of claim 23, wherein the metallic sheath and at least one of the first plate and the second plate are fabricated from stainless steel.
- 25. The substrate support of claim 17, wherein the guide further comprises a a plurality of tabs extending from either side of a center portion, the tabs coupled to the first plate.
- 26. The support of claim 17 further\comprising:
- a thermally conductive filler disposed between the heating element and the first plate.
- 27. The support of claim 26, wherein the thermally conductive filler is at least one of a conductive paste, a conductive cement, a conductive adhesive, a conductive foam, a conductive gel, a metallic power, a metallic fiber or a metallic mesh.



2β. A substrate support for supporting a substrate, comprising:

a first metallic plate having a first surface and an opposing second surface;

a second metallic plate coupled to the first plate;

at least one guide having a central body disposed between the second surface of the first plate and a first surface of the second plate;

a channel formed in the central body;

a plurality of tabs extending from the central body, the tabs coupled to the second surface of the first plate; and

a resistive heating element disposed in the guide and urged against the second surface of the first plate.

- 29. The substrate support of claim 28, wherein at least one of the tabs is spot welded to the first plate.
- 30. The substrate support of claim 28, wherein the resistive heating element comprises a metallic sheath circumscribing an electrical conductor, the metallic sheath fabricated from material having a coefficient of thermal expansion substantially similar to a coefficient of thermal expansion of the first plate.
- 31. The substrate support of claim 30, wherein the metallic sheath and at least one of the first plate and the second plate are fabricated from stainless steel.
- 32. A heating chamber for heating a substrate, the chamber comprising:
 - a chamber body defining an interior volume,
 - a substrate storage cassette having walls;
- a plurality of heated first support plates coupled to the walls and stacked parallel to each other within the interior volume, the first support plates having a first surface adapted to support the substrate; and
- a heating element urged against a second side of each support plate, the second side opposing the first side.

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33\ The chamber of claim 32 further comprising:

a second plate coupled to the first plate and sandwiching the heating element therebetween.

34. The chamber of claim 32 further comprising:

at least one guide disposed proximate the heating element and laterally retaining the heating element relative to the second side of the first plate.

- 35. The chamber of claim 34, wherein the guide further comprises a heating element retaining channel formed therein.
- 36. The chamber of claim 34, wherein the guide further comprises a plurality of tabs extending from the guide, the tabs coupled to the first plate.
- 37. The chamber of claim 34, wherein the guide is fabricated from a material having a coefficient of thermal expansion substantially similar to a coefficient of thermal expansion of the first plate.
- 38. The chamber of claim 32, wherein the resistive heating element comprises a metallic sheath circumscribing an electrical conductor, the metallic sheath fabricated from material having a coefficient of thermal expansion substantially similar to a coefficient of thermal expansion of the first plate.
- 39. The chamber of claim 38, wherein the resistive heating element comprises a metallic sheath circumscribing an electrical conductor, the metallic sheath, the first plate and the guide fabricated from stainless steel.
- 40. The chamber of claim 32 further comprising:

a plurality of spacers coupled to the first surface of the each of the plate and/or the walls of the cassette, the spacers adapted to maintain the



substrate and the first surface in a spaced-apart relation.

41.\\A heating chamber for heating a substrate, the chamber comprising:

a chamber body defining an interior volume,

a substrate storage cassette having walls;

a plurality of heated first support plates coupled to the walls and stacked parallel to each other within the interior volume, the first support plates having a first surface adapted to support the substrate;

a metallic guide having a channel facing a second surface of the first support plate;

a resistive heating element disposed in the channel urged against a second side of each support plate, the second side opposing the first side; and

a second support plate sandwiching the guide with the first support plate.

42. A method for fabricating a heated support plate comprising:

providing a metallic first plate having a first surface adapted to support a substrate and an opposing second surface, and a second metallic plate;

forming a channel in at least one of the plates;

sandwiching a resistive heater disposed in the channel between the first and second plates; and

compressing the resistive heater from a non-compressed height to a compressed height equal to a depth of the channel.

43. A method for fabricating a heated support plate comprising:

providing a metallic first plate having a first surface adapted to support a substrate and an opposing second surface and a second metallic plate;

positing at least one guide between the first and second plates, the at least one guide defining channel parallel to a plane of the first plate;

sandwiching a resistive heater having a height greater than a depth of the channel within the channel between the first and second plates.



- 44. The method of claim 43 further comprising urging the resistive heater against the first plate.
- 45. The method of claim 43 further comprising spot welding the guide to the first plate.
- 46. The method of claim 45, wherein step of spot welding further comprises welding tabs extending from a body of the guide, the channel formed in the body.